

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV 10-98)		ATTY/DOCKET NUMBER <b>FHV 1US</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C.371</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>09/445289</b>
INTERNATIONAL APPLICATION <b>PCT/GB98/01619</b>	INTERNATIONAL FILING DATE <b>03 June 1998 (03.06.98)</b>	PRIORITY DATE CLAIMED <b>04 June 1997 (04.06.97)</b>
<b>TITLE OF INVENTION</b> <b>BACTERIAL PHEROMONES AND USES THEREFOR</b>		
<b>APPLICANT(S) FOR DO/EO/US</b> <b>Galina V. MUKAMOLOVA; Arseny S. KAPRELYANTS; Danielle I. YOUNG; Douglas B. KELL; and Michael YOUNG</b>		
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C.371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371 (f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371 (b) and PCT Articles 22 and 39(1).</li> <li>4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau) <b>(72 sheets and 20 sheets of drawings);</b></li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C 371(c)(2)).</li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) (<b>unexecuted</b>) (<b>4 sheets</b>);</li> <li>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
<b>Items 11. to 16. below concern document(s) or information included:</b> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included</li> <li>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment (<b>9 sheets</b>);             <ol style="list-style-type: none"> <li><input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> </ol> </li> <li>14. <input type="checkbox"/> A substitute specification.</li> <li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>16. <input checked="" type="checkbox"/> Other items or information: <b>Transmittal Letter (2 sheets in duplicate); PCT Request (Form PCT/R/101) (6 sheets); PCT International Published Application (WO 98/55624) (with International Search Report attached); (75 sheets); PCT Notification of Transmittal of the International Preliminary Examination Report (Form PCT/IPEA/416) (8 sheets); Sequence Listing (31 sheets); Sequence Listing Diskette; Transmittal Letter for Diskette of Sequence Listing (1 sheet); Certificate of Express Mailing (1 sheet); and Return Postcard.</b></li> </ol>		

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) **09/445289**INTERNATIONAL APPLICATION NO.  
**PCT/GB98/01619**ATTORNEY'S DOCKET NO.  
**FHW-051US**

CALCULATIONS PTO USE ONLY

17.  The following fees are submitted:**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5) ) .(a/o November 1, 1999):**

Search Report has been prepared by the EPO or JPO.....	\$840
International preliminary examination fee paid to USPTO (37 CFR 1.482).....	\$670
No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)).....	\$760
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....	\$970
International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4).....	\$96

**\$840****ENTER APPROPRIATE BASIC FEE AMOUNT =**

Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).	20	30	\$
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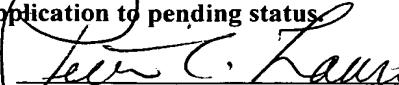
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	65 -20 =	45	X \$18.00	<b>\$810</b>
Independent claims	21 -3 =	18	X \$78.00	<b>\$1404</b>
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ 260.00	\$--
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$3054</b>
Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28)				\$--
<b>SUBTOTAL =</b>				<b>\$3054</b>
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$--
<b>TOTAL NATIONAL FEE =</b>				<b>\$3054</b>
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$--
<b>TOTAL FEES ENCLOSED =</b>				\$--
				<b>Amount to be:</b>
				<b>refunded</b>
				<b>charged</b>

- A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- Please charge my Deposit Account No. 12-0080 in the amount of \$3054 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- The Commissioner is hereby authorized to charge any additional fees which may be required, or credit  
any overpayment to Deposit Account No. 12-0080. A duplicate copy of this sheet is enclosed.

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO:

**Anthony A. Laurentano, Esq.**  
**LAHIVE & COCKFIELD, LLP**  
**28 State Street**  
**Boston, Massachusetts 02109**  
**United States of America**  
**(617)227-7400**  
**Date: 03 December 1999**

  
 SIGNATURE

Peter C. Lauro

NAME

32,360

REGISTRATION NUMBER

400 R 03 PCT/PTO 03 DEC 1999  
09/445289

IN THE UNITED STATES PATENT DESIGNATED OFFICE (DO/US)  
(National Phase of International App.: PCT/GB98/01619)

In re the  
application of: **Galina V. MUKAMOLOVA et al.**

International Application No.: **PCT/GB98/01619**

International Filing Date: **03 June 1998**

U.S. Serial No.: **Not yet assigned**

Filed: **Herewith**

For: **BACTERIAL PHEROMONES  
AND USES THEREFOR**

Attorney Docket No.: **FHW-051US**

Assistant Commissioner for Patents  
BOX PCT  
Washington, D.C. 20231

Certification Under 37 CFR 1.10

I hereby certify that the attached:

Transmittal Letter (2 sheets in duplicate); Copy of the International Application as filed (72 sheets; 20 sheets drawings; and 31 sheets sequence listing); Preliminary Amendment (9 sheets); Declaration, Petition and Power of Attorney (unexecuted) (4 sheets); PCT Request (6 sheets); PCT International Published Application (WO 98/55624) (with International Search Report attached) (75 sheets); PCT Notification of Transmittal of the International Preliminary Examination Report (Form PCT/IPEA/416) (8 sheets); Sequence Listing Diskette; Transmittal Letter for Diskette of Sequence Listing (1 sheet); Certificate of Express Mailing (1 sheet); and Return Postcard are being deposited by me with the United States Postal Service "Express Mail Post Office to Addressee" service, Mailing Label No. **EL 263 573 597 US**, under 37 CFR 1.10 on the date indicated below and is addressed to the Assistant Commissioner for Patents, Box PCT, Washington, D.C. 20231.

Date: 03 December 1999

Name: Deise K. Timas

Signature: Deise K Timas